

12/11/98

INFORMATION DISCLOSURE CITATION

PTO-1449

ATTORNEY'S DKT NO.
027575-190APPLICATION NO.
09/165,647APPLICANT
Gregory E. BOTTOMLEYFILING DATE
October 2, 1998GROUP
2744

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JB</i>	5,572,552	11/1996	Dent et al.	375	343	
<i>JB</i>	5,680,419	10/1997	Bottomley	375	347	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	2,280,575	02/1995	United Kingdom				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Gregory E. Bottomley, <i>"Optimizing the RAKE Receiver for the CDMA Downlink"</i> , Proc. 43 rd , IEEE Veh. Technol. Conf. (VTC '93), pp. 742-745, May 18-20, 1993.
	K. Jamal, <i>"Adaptive MLSE Performance on the D-AMPS 1900 Channel"</i> , IEEE Transactions on Vehicular Technology, Vol. 46, No. 3, pp. 634-641, Aug., 1997.
	Erik Lindskog, <i>"Multi-Channel Maximum Likelihood Sequence Estimation"</i> , 1997 IEEE Veh. Technol. Conf. (VTC '97), pp. 715-719, May 4-7, 1997.
	J. Lin et al, <i>"Optimal Tracking of Time-Varying Channels: A Frequency Domain Approach for Known and New Algorithms"</i> , IEEE J. Sel. Areas Commun., Vol. 13, pp. 141-153, Jan. 1995.
	M. Davis et al., <i>"Implementation of a CDMA Receiver with Multiple-Access Noise Rejection"</i> , IEEE, Sec. 4.2.2-4.2.5, pp. 103-107 (1992).
	M. Davis et al., <i>"Improved CDMA Performance through Multiple Access Noise Rejection"</i> , IEEE, Se. 36.2.136.2.5, pp. 0846-0850 (1992).

EXAMINER

DATE CONSIDERED

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274410/05/01
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>GB</i>	5,572,552	11/1996	Dent et al.	375	343	
<i>GB</i>	5,677,930	10/1997	Bottomley	375	208	
<i>GT</i>	5,680,419	10/1997	Bottomley	375	347	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	WO96/06487	02/1996	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

European Search Report re RS 101871
Date of mailing of search: 26 March 1999
G. Bottomley et al., "Optimizing the Performance of Limited Complexity RAKE Receivers", Vol. 2, 48 th IEEE Vehicular Tech. Conf., pp. 968-972 (May 18-21, 1998).

EXAMINER

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE ATTY DOCKET NO.
PATENT AND TRADEMARK OFFICE 1280.00130

SERIAL NO.

09/165,647 PTO

LIST OF PRIOR ART CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT: Gregory E. Bottomley

FILING DATE

October 2, 1998

GROUP

2744

1078 U.S. PTO
09/992094
11/05/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
D	AA 5 5 7 2 5 5 2	11/96	Dent et al.			
B	AB 5 6 7 7 9 3 0	10/97	Bottomley			
B	AC 5 6 8 0 4 1 9	10/97	Bottomley			
B	AD 5 7 6 8 3 0 6	06/98	Sawahashi et al.			
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES
						NO
AK	0 6 9 0 5 8 8	06/95	EPO			
AL	WO96 0 6 4 8 7	08/95	PCT			
AM	0 7 5 7 4 5 0	07/96	EPO			
AN						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Article entitled: "Optimizing The Performance Of Limited Complexity Rake Receivers"
(Bottomly, et al.) 48th IEEE Vehicular Technology Conference - Published May 1993

EXAMINER	DATE CONSIDER
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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 1280.00130	SERIAL NO.: 09/165,647
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		APPLICANT: GREGORY E. BOTTOMLEY	U.S. PTO 092094
		FILING DATE: October 2, 1998	GROUP: 2744

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AD	WO 96 06487	2/29/96	PCT				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AE Bottomley G. E., et al., "Optimizing the performance of limited complexity RAKE receivers", VTC '98. 48th IEEE Vehicular Technology Conference. Pathway to a Global Wireless Revolution (Cat. No. 98CH36151), VTC '98. 48th IEEE Vehicular Technology Conference. Pathway to a Global Wireless Revolution, Ottawa, Ontario, Canada, 18-21 May 1998, pages 968-792, vol. 2, XP002098104, ISBN 0-7803-4320-4, 1998, New York, NY.

EXAMINER _____ DATE CONSIDERED _____

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 1280.00130	SERIAL NO. 09/165,647
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Gregory E. Bottomley	GROUP 2744
		FILING DATE	

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11/05/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	AC						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AD	P. Muszynski, "Interference Rejection Rake-Combining for WCDMA", First International Symposium on Wireless Personal Multimedia Communications (WPMC '98), Yokosuka, Japan, November 4-6, 1998, pp. 93-98
AE	A. M. Monk, M. Davis, L. B. Milstein, and C. W. Helstrom, "A Noise-Whitening Approach to Multiple Access Noise-Rejection - Part I: Theory and Background", IEEE Journal on Selected Areas in Communications, Vol. 12, No. 5, pp. 817-827, June 1994
AF	M. Davis, A. M. Monk, and L. B. Milstein, "A Noise-Whitening Approach to Multiple-Access Noise Rejection - Part II: Implementation Issues", IEEE Journal on Selected Areas in Communications, Vol. 14, No. 8, pp. 1488-1499, October 1996
AG	Y. C. Yoon and H. Leib, "Matched Filters with Interference Suppression Capabilities for DS-CDMA", IEEE Journal on Selected Areas in Communications, Vol. 14, No. 8, pp. 1510-1521, October 1996
AH	L. Mailaender and R. A. Iltis, "Linear Single-User Detectors for Asynchronous and Quasi-Synchronous CDMA", Proc. 29th Annual Conference on Information Sciences and Systems (CISS '95), Johns Hopkins University, p. 199-204, 1995
AI	A. Klein, "Data Detection Algorithms Specially Designed for the Downlink of CDMA Mobile Radio Systems", 1997 IEEE Vehicular Technology Conference (VTC '97), Phoenix, Arizona, May 4-7, 1997, pp. 203-207
AJ	G. E. Bottomley, "Optimizing the Rake Receiver for the CDMA Downlink", 1993 43rd IEEE Vehicular Technology conference, Secaucus, New Jersey, May 18-20, 1993, pp. 742-745
AK	H. Liu and M. D. Zoltowski, "Blind Equalization in Antenna-Array CDMA System", IEEE Transactions on Signal Processing, Vol. 45, No. 1, pp. 161-172, January 1997
AL	A. F. Naguib and A. Paulraj, "Performance of CDMA Cellular Networks with Base-Station Antenna Arrays", 1994 International Zurich Seminar on Digital Communications

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Bottomley, Gregory	
		FILING DATE October 2, 1998	GROUP 2744

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SL</i>	AA	5,677,930	10/14/97	Bottomley et al			July 19, 1995
<i>GB</i>	AB	5,572,552	11/5/96	Dent et al.			January 27, 1994
<i>SL</i>	AC	5,680,419	10/21/97	Bottomley et al			August 1, 1994
<i>GB</i>	AD	5,768,306	6/16/98	Sawahashi et al			July 25, 1997

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	WO-96/06487	1/3/96	PCT				
	AM	EPO 0 690 588 A2	3/1/96	EPO				
		EPO 0 757 450 A2	2/5/97	EPO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages Etc.)

AR	Bottomley, Gregory E., et al. Optimizing the Performance of Limited Complexity Rake Receivers, Ericsson, Inc. USA, pp. 968-972, XP-002098104, 1998		
AS			
AT			
EXAMINER		DATE CONSIDERED	

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